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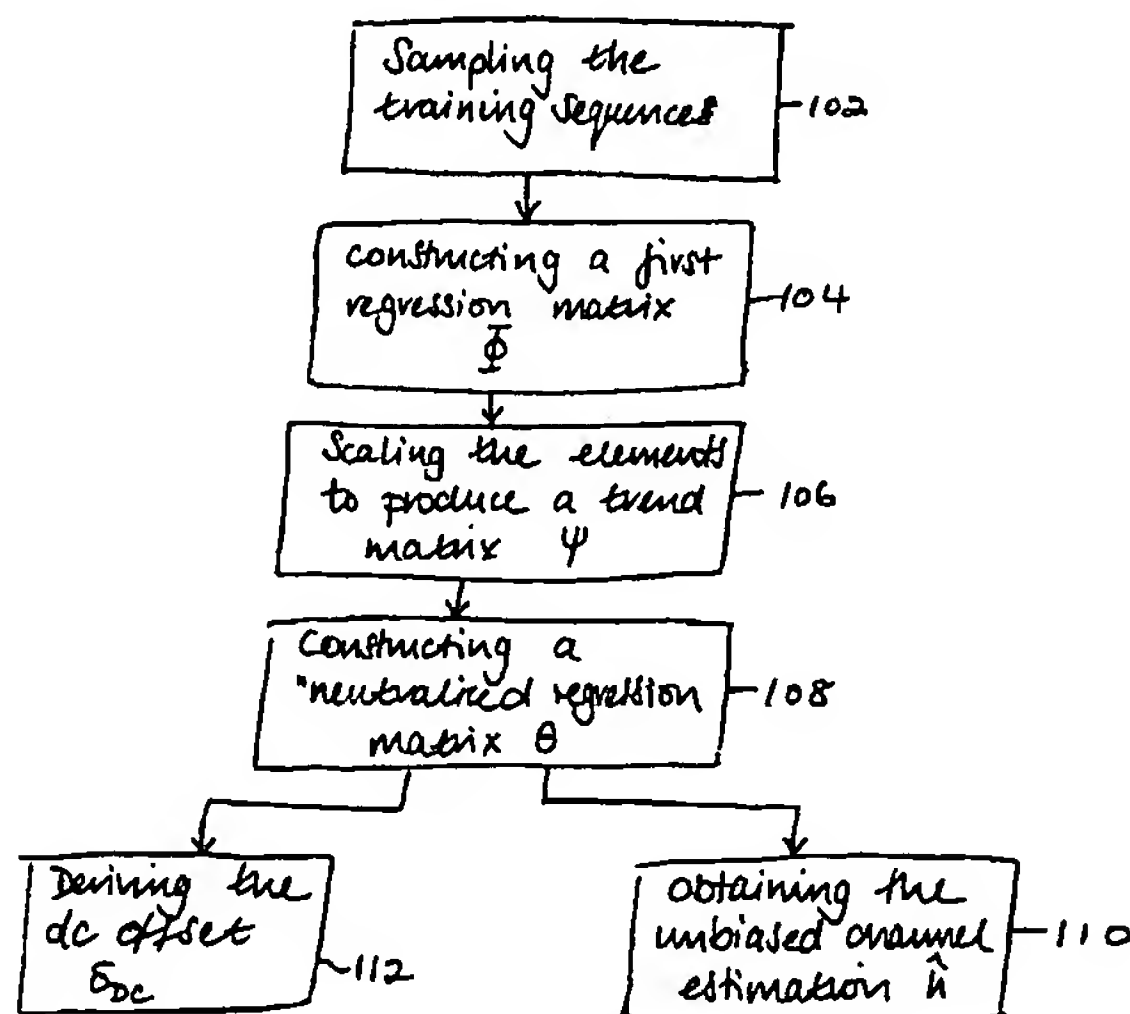
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(54) Title: METHOD AND APPARATUS FOR DC OFFSET COMPENSATION IN A DIGITAL COMMUNICATION SYSTEM



(57) Abstract: A method of compensating for dc offset of a received signal transmitted over a channel having a plurality of paths, the received signal comprising a modulated data signal and a modulated known training sequence signal, the method comprising the steps of: constructing (104) from the known training sequence signal a first regression matrix; path-combining (106) the incrementally rotated elements of the first regression matrix to produce the elements of a trend matrix; deriving (108) a neutralized second regression matrix from the first regression matrix and the trend matrix; utilising the neutralized second regression matrix to compensate (110, 112) for dc offset of the received modulated data signal.